



Salton Sea Ecosystem Selected Ongoing and Planned Activities

Species Conservation Habitat Stakeholders Meeting
October 19, 2010
Lee Case

Today's Presentation

- Share info on selected science-related activities not directly part of SCH;
- Caution—this list does not include all...
- Salton Seismic Imaging Project;
- Lidar Project (w/bathymetric collaboration);
- Planned collection of Imagery data;
- Desert Landscape Conservation Cooperative;
- Monitoring;
- Monitoring and Assessment Plan update;
- Red Hill Bay.

Salton Seismic Imaging Project

USGS, Cal Tech, Virginia Tech, Scripps, Univ. Nevada-Reno

■ Rift Processes

- Roles of and interactions between:
 - Continental stretching
 - Magmatism
 - Sedimentation

■ Earthquake Hazards

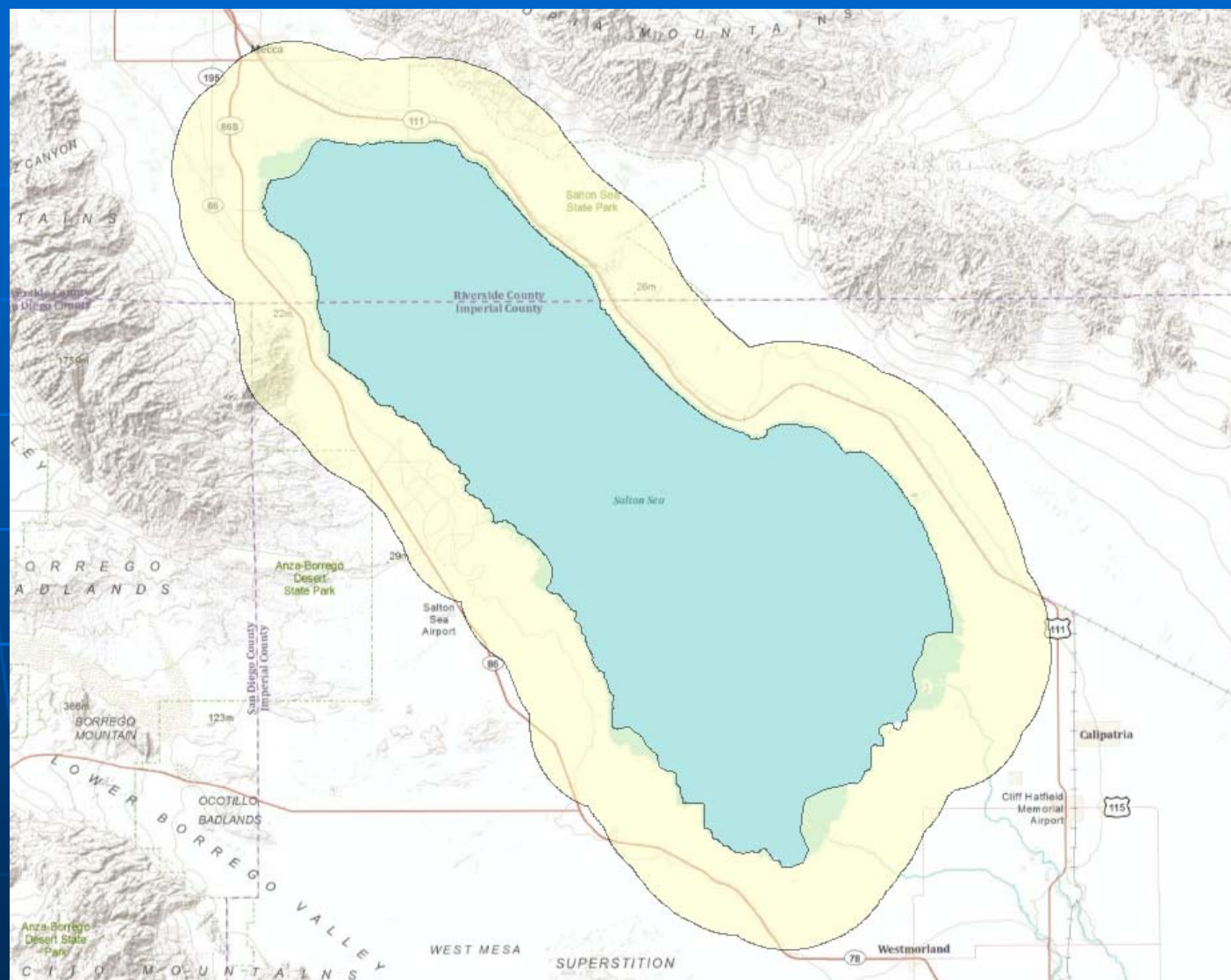
- Basin Structure
- Fault geometry
- 3-D Seismic velocity



LIDAR Project

- Objective: obtain high-resolution elevation information around the Salton Sea.
- Approach: 5-km swath totally around the Salton Sea.
- Uses: fault identification, change detection, land cover, planning.

Pending Lidar for Salton Sea (5 km buffer)



The CLICK Lidar Portal



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Welcome to the USGS Center for LIDAR Information Coordination and Knowledge

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Bulletin Board

Data Viewer

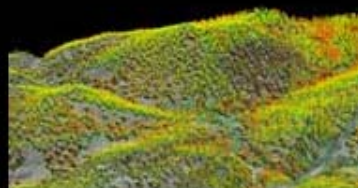
Websites/References

Contact Us

CLICK

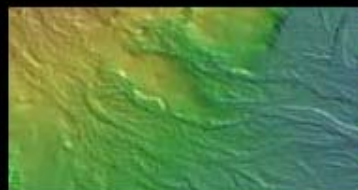
Center for LIDAR Information Coordination and Knowledge

Discrete-return point clouds



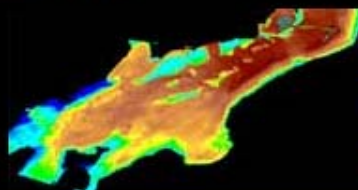
Find out more about discrete-return lidar: See if [publicly-available lidar](#) is in your area of interest; [ask and answer](#) questions about the data, processing, derivatives and more on our bulletin board; [look for articles](#) and other websites about lidar.

Bare Earth

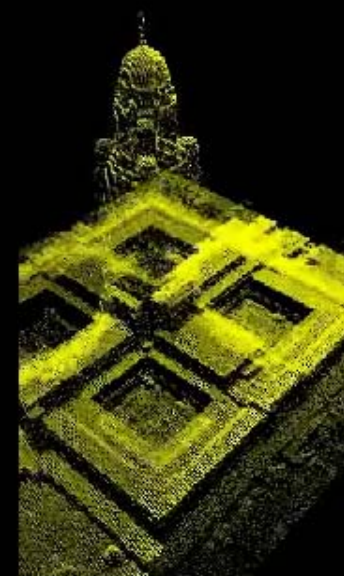


Find out more about the USGS bare earth derivatives from lidar: Go to our [National Elevation Dataset \(NED\)](#) page. NED contains bare earth elevation data created by lidar and other sources.

NASA EAARL

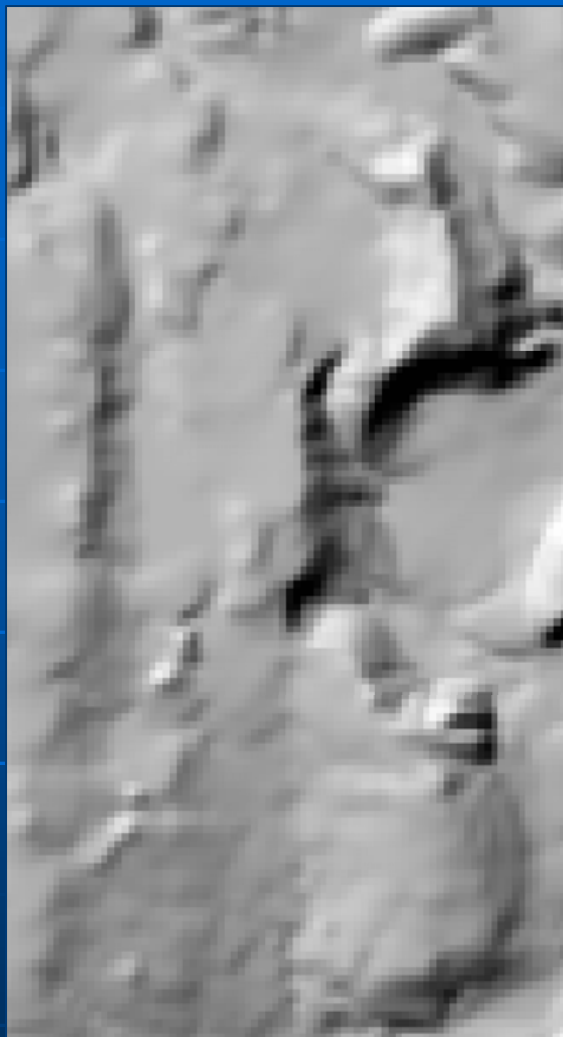


Find out more about NASA's [Experimental Advanced Airborne Research Lidar \(EAARL\)](#) system, and how it is being used. View and download data collected by EAARL- lidar as well as imagery.

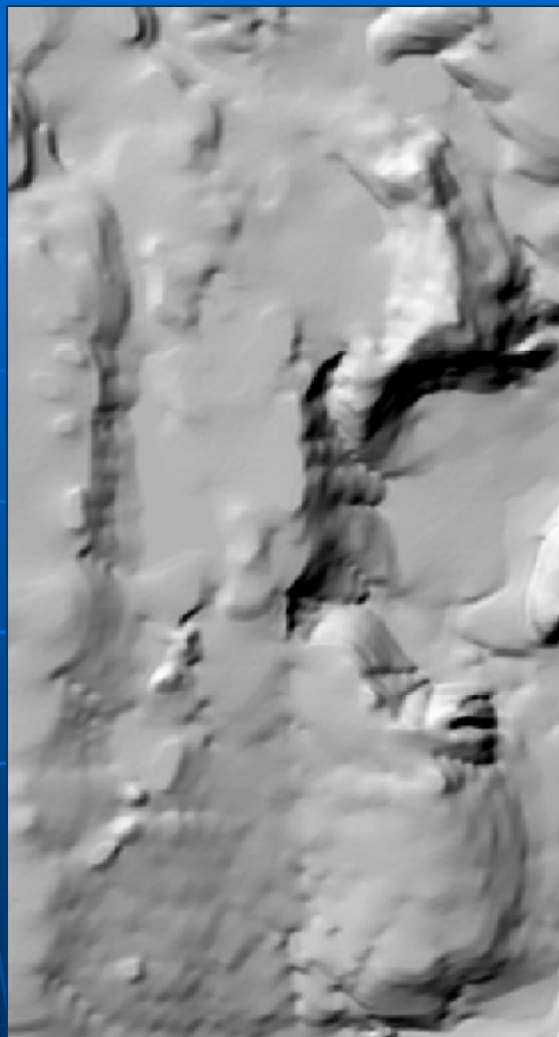


lidar.cr.usgs.gov/

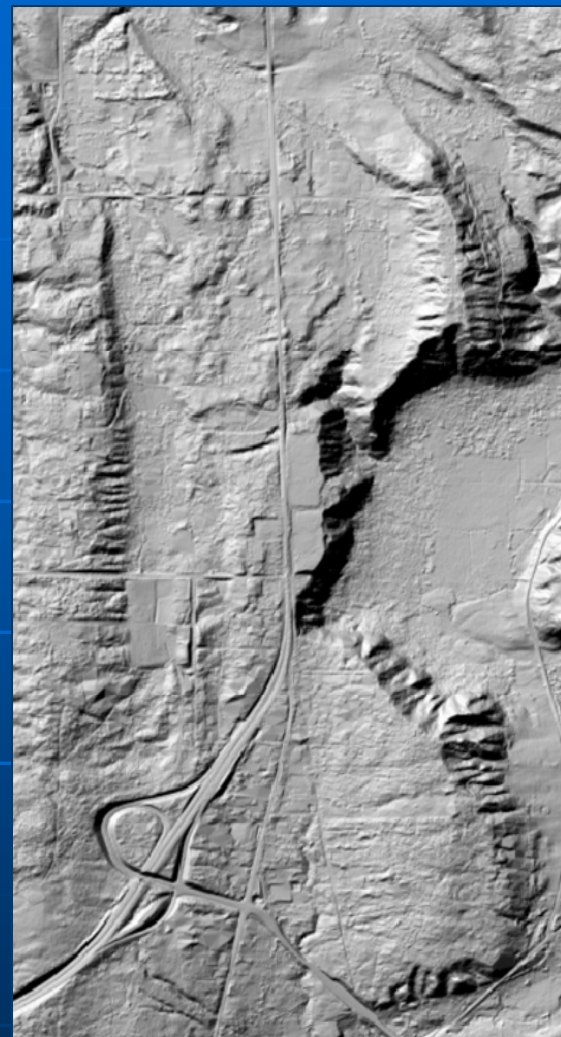
Multi-resolution National Elevation Dataset



1-arc-second

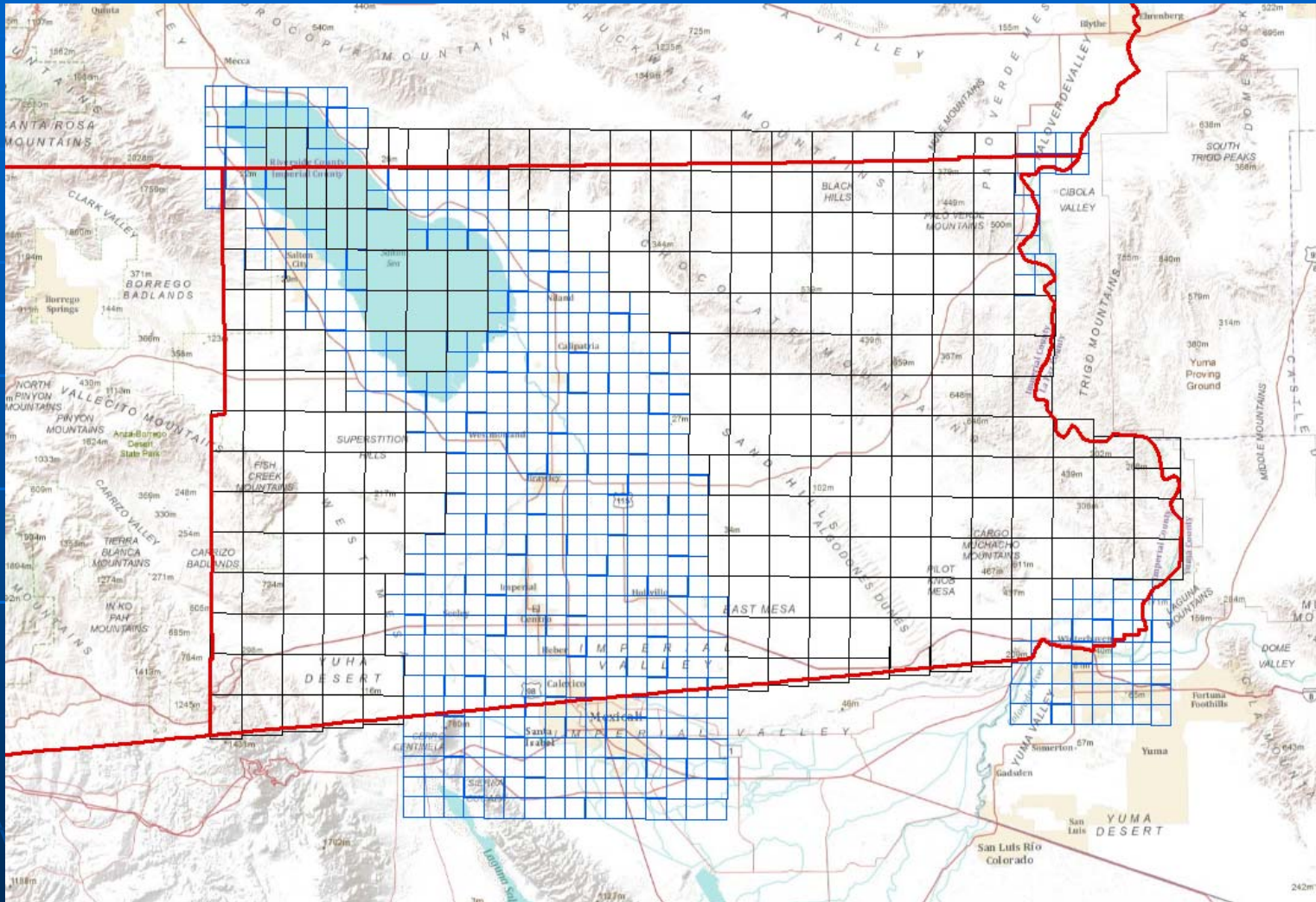


1/3-arc-second



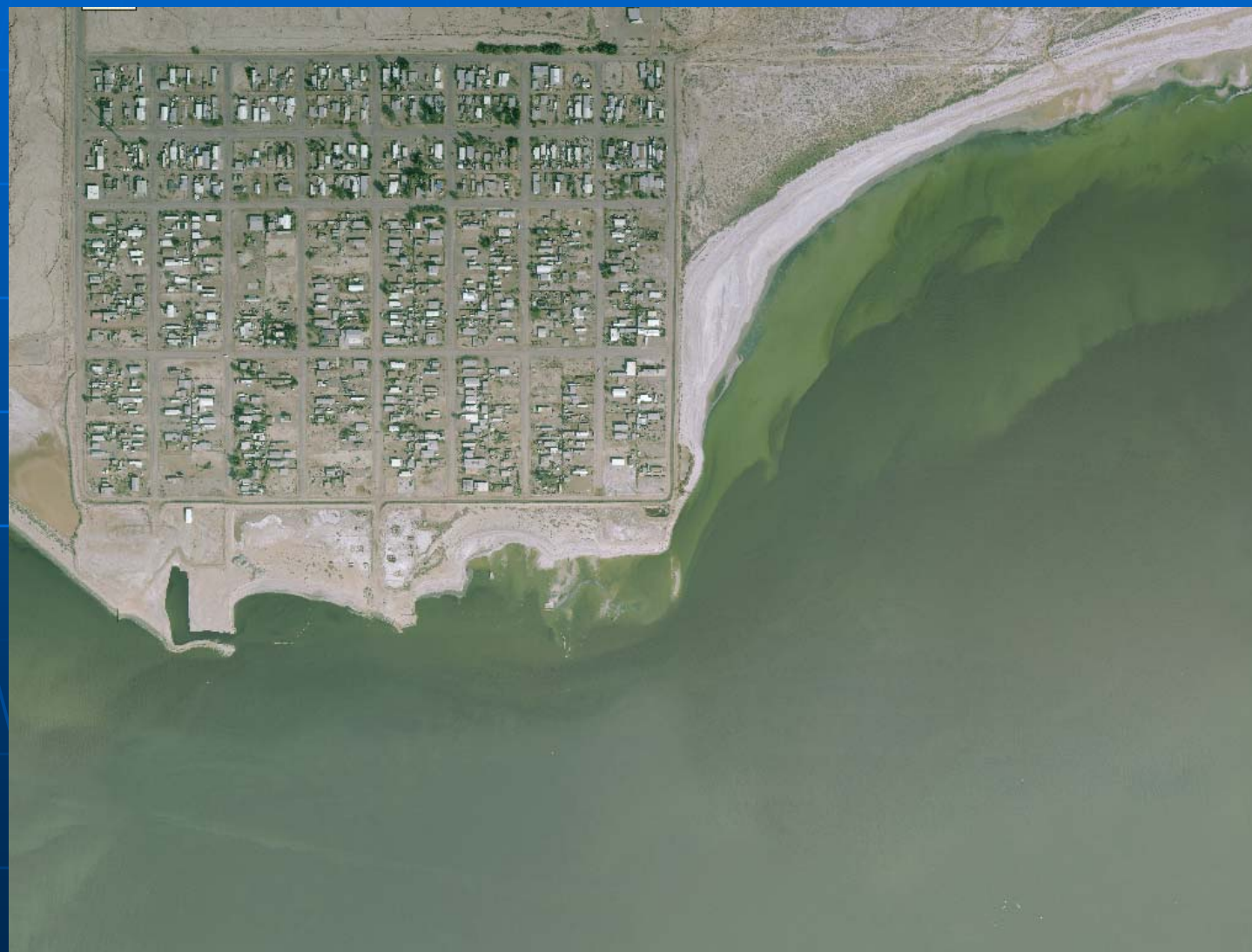
1/9-arc-second

2008 Imperial County Imagery

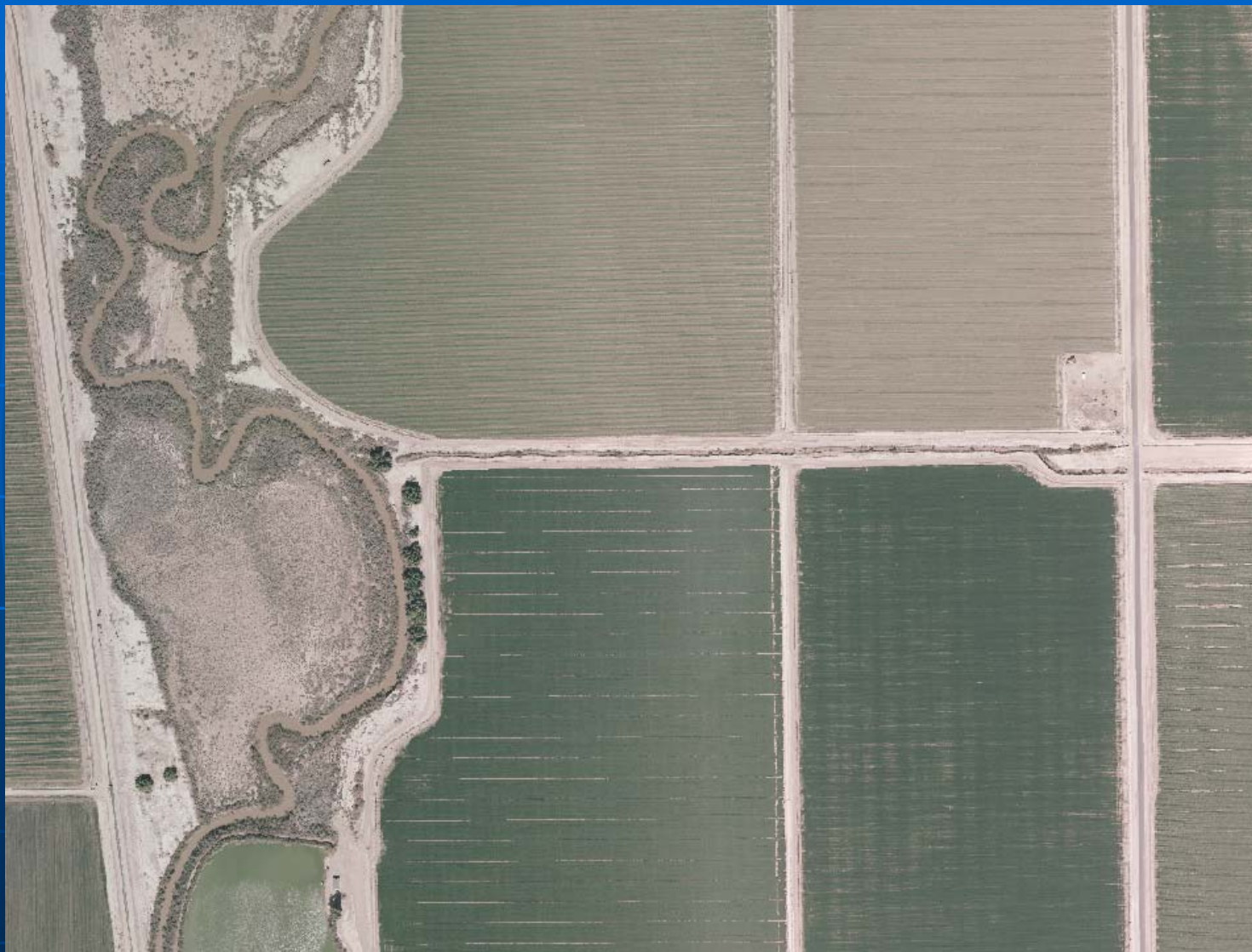


Aerial Imagery

Bombay Beach – 6" imagery 2008



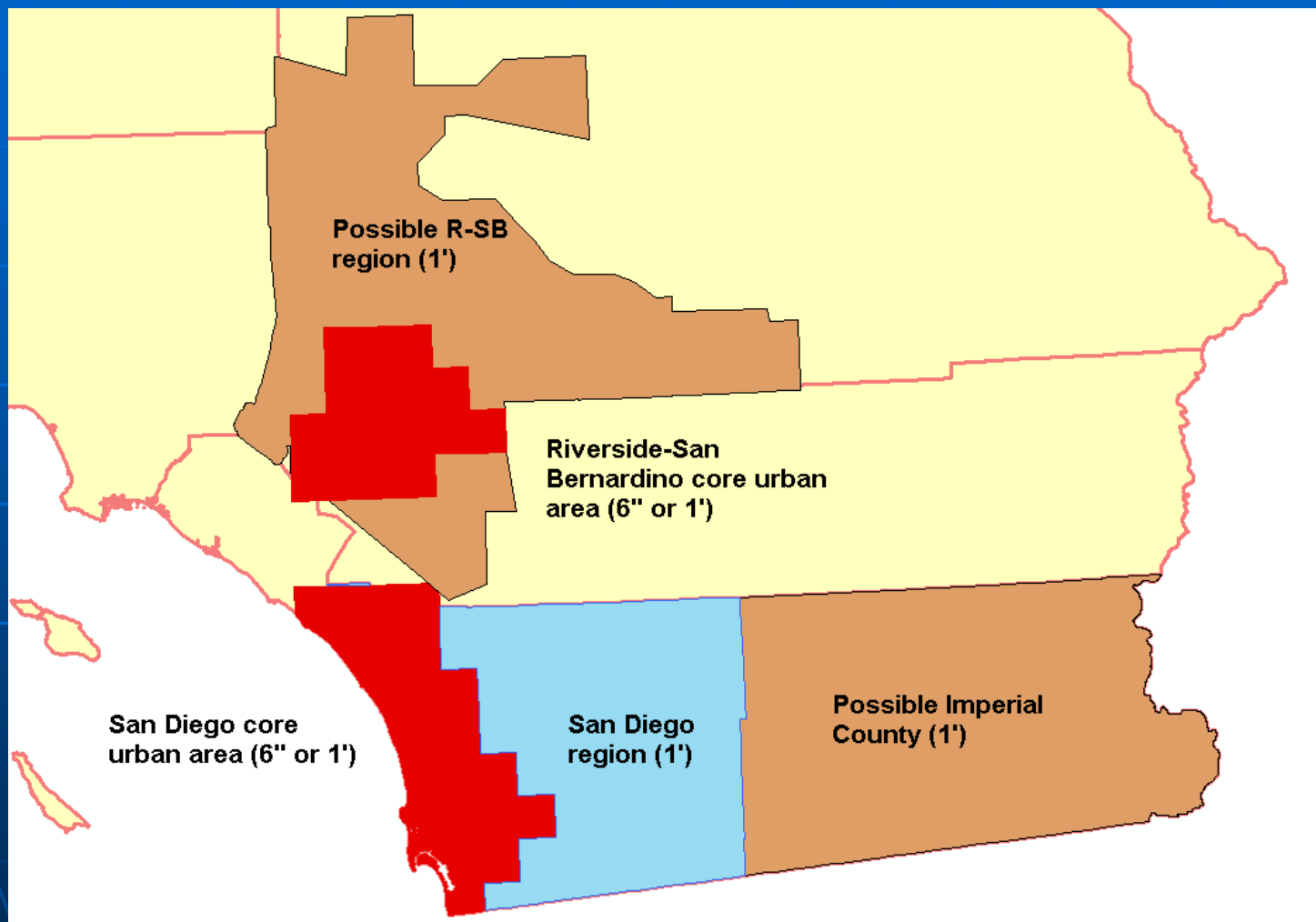
Alamo River and canals – 6" imagery 2008



Ted Kipf Road and Railroad – 1' imagery 2008

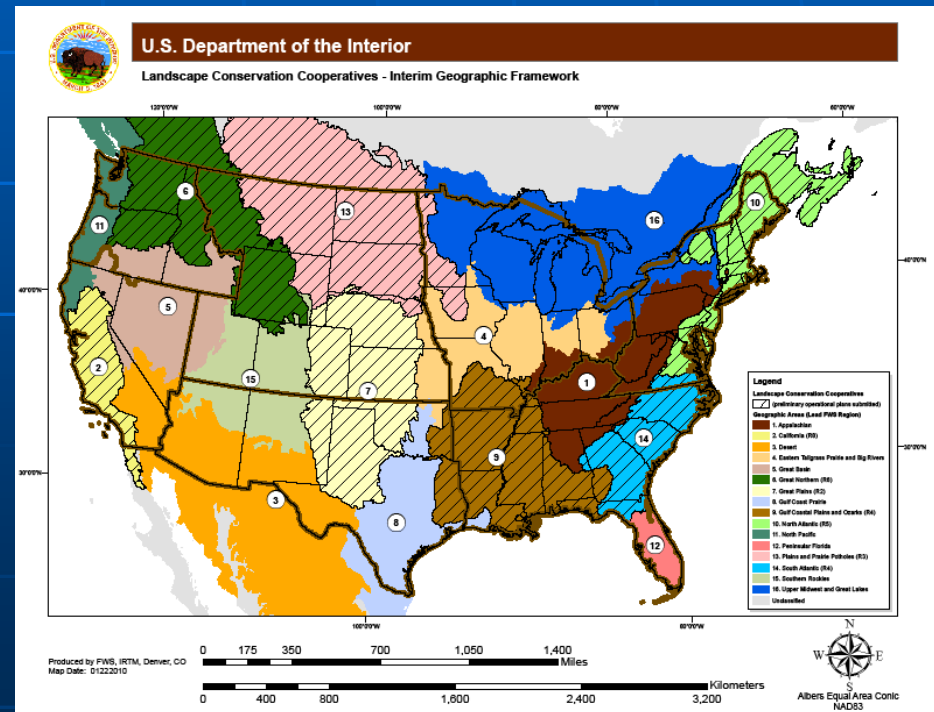


Possible New 2011 Imagery



Desert Landscape Conservation Cooperative

LCCs are the applied science branch of a Department of the Interior plan for a coordinated, science-based response to climate change impacts on our land, water, and wildlife resources.



What is an LCC?

- Each LCC will function in a specific geographic area, and will form a national and ultimately international network.
- Each LCC is a
- management-science
- partnership.



Desert LCC - Next Steps

During Fiscal Year 2010, Reclamation and the Service will reach out to other Federal land managers, State, Tribes, and non-governmental organizations to establish the Desert LCC with primary goals:

- Developing a shared conservation vision for the Desert LCC
- Determining threats to priority resources, habitats, species, and science needs
- Identifying existing resource and science partnerships relevant to the LCC



Desert LCC - Points of Contact

LCC Coordinator:

Avra Morgan
aomorgan@usbr.gov
303-445-2906

Science Coordinator:

Mima Falk (FWS)
Mima_falk@fws.gov
520-670-6144

Fact Sheet:

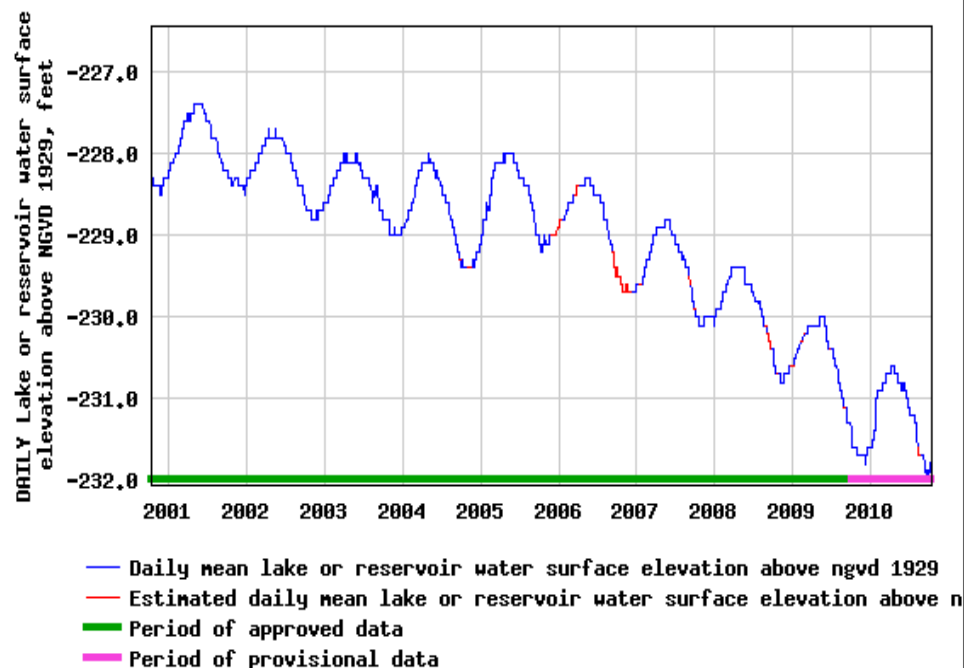
<http://www.usbr.gov/WaterSMART/docs/Desert%20LCC%20Fact%20Sheet.pdf>



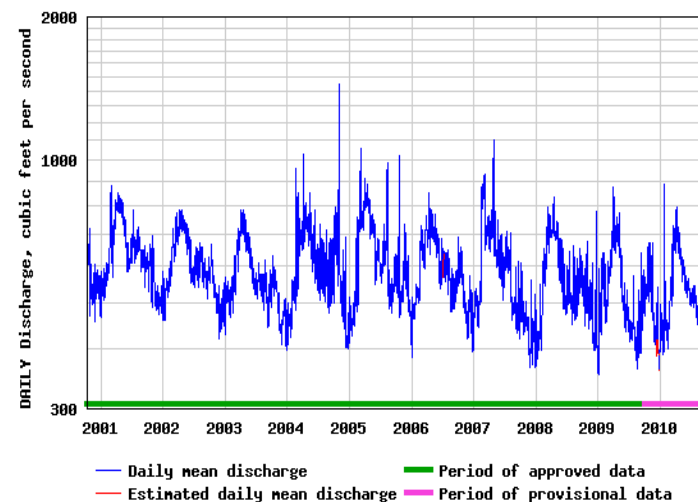
Monitoring



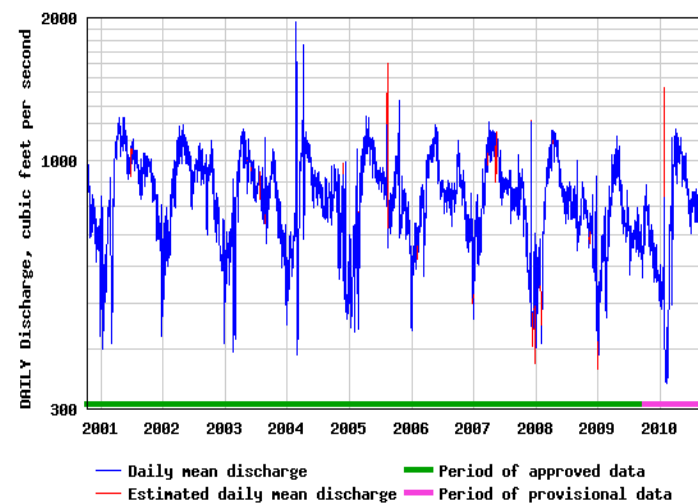
USGS 10254005 SALTON SEA NR WESTMORLAND CA



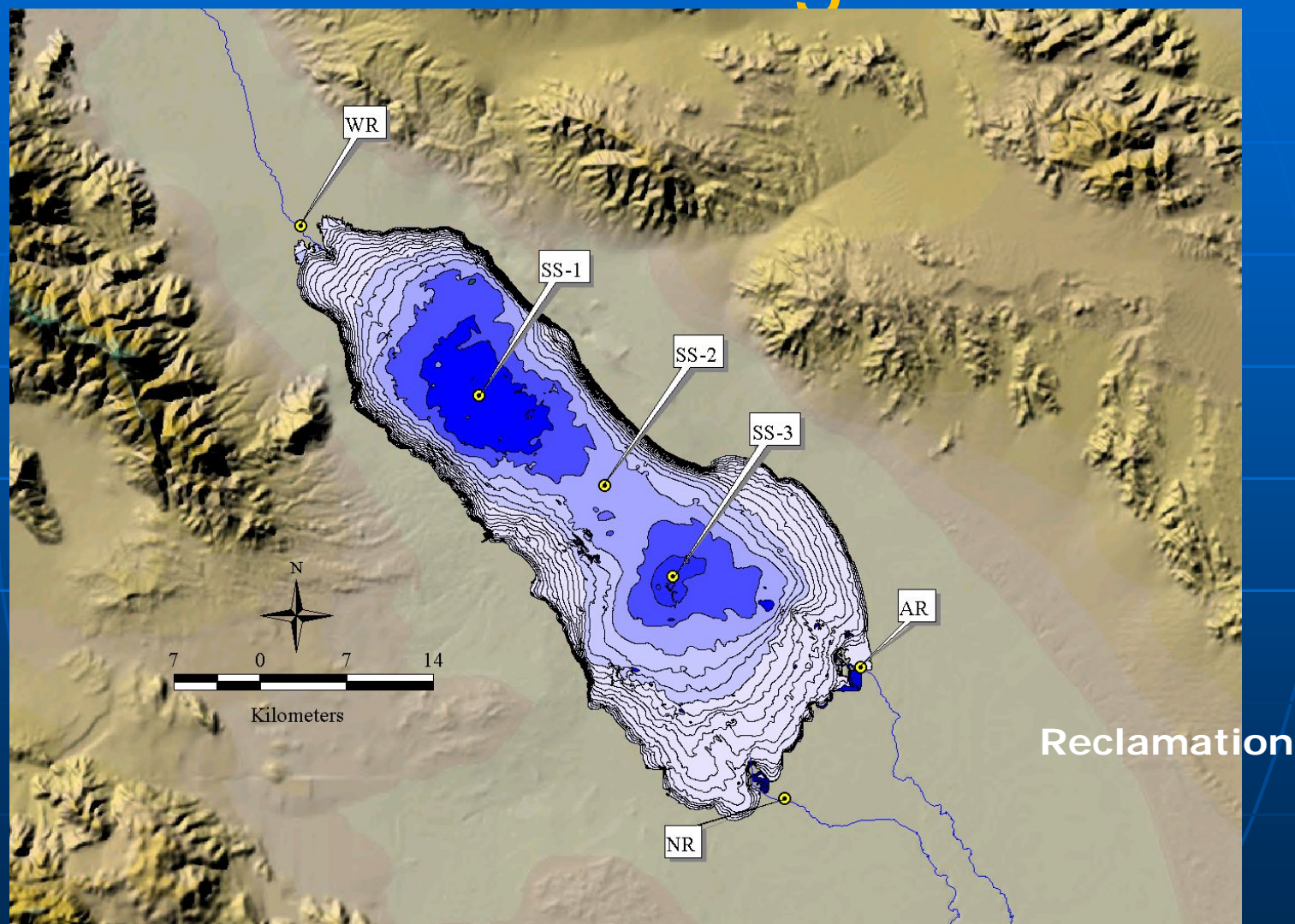
USGS 10255550 NEW R NR WESTMORLAND CA



USGS 10254730 ALAMO R NR NILAND CA



Monitoring



Monitoring

- Bird Monitoring
 - (CA DFG/USFWS)
 - Natural History Museum of Los Angeles



Monitoring and Assessment Plan

- Joint State/USGS effort with significant help from stakeholders;
- In Review
- To be published as USGS Open File Report in FY 2011;
- Guidelines/protocols info available as needed. –We don't need to wait for the report to monitor!

April 18 2006

Red Hill Bay

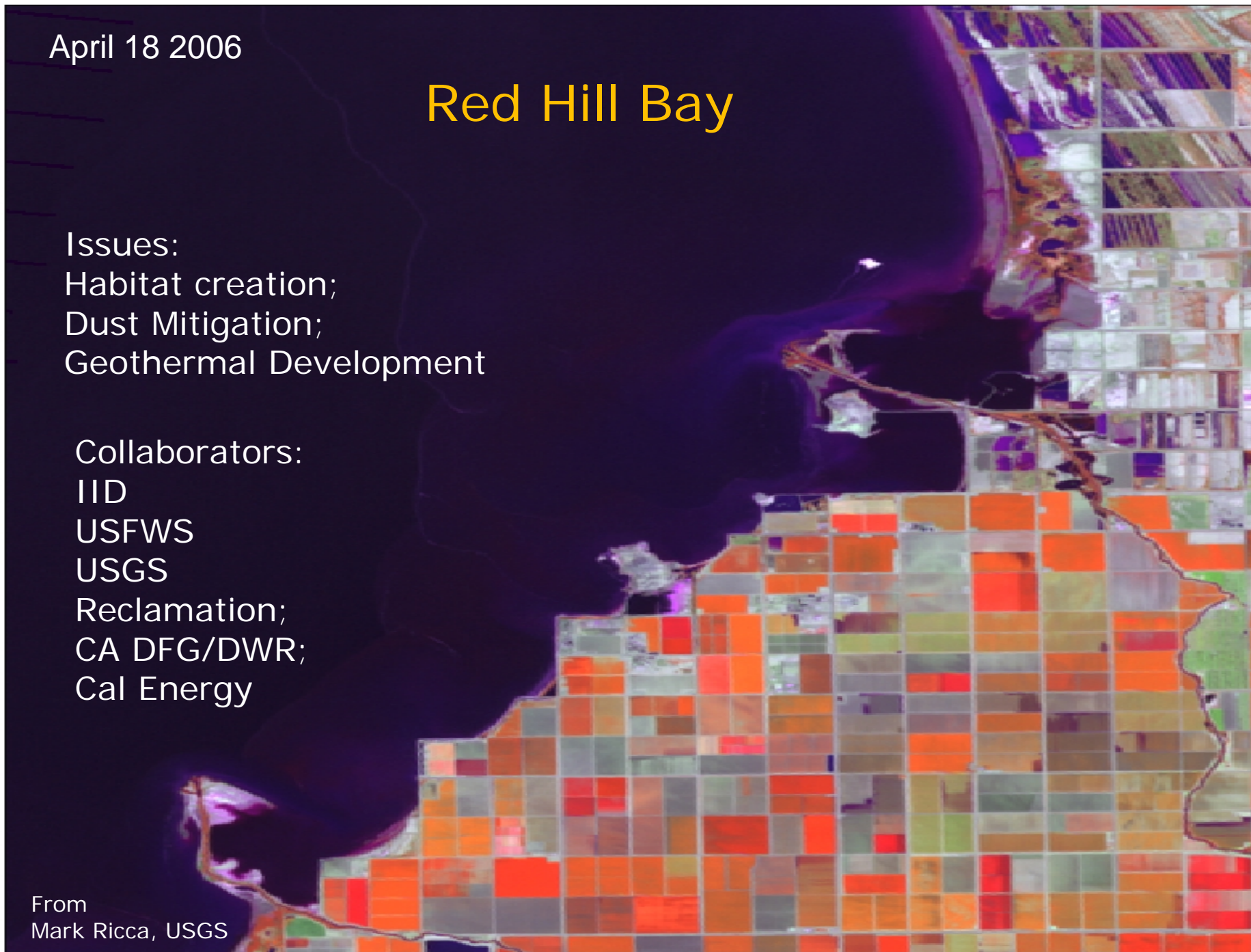
Issues:

Habitat creation;
Dust Mitigation;
Geothermal Development

Collaborators:

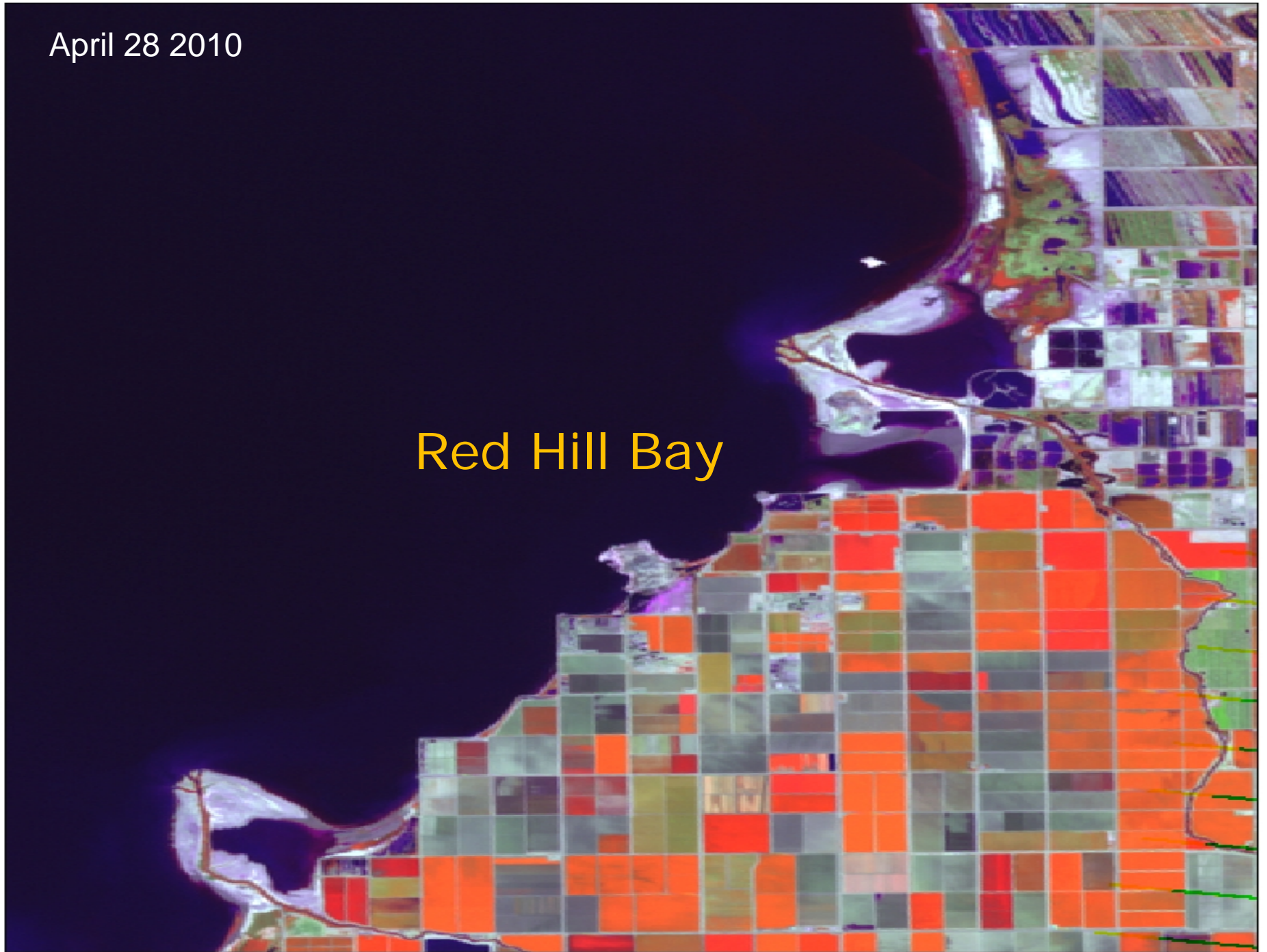
IID
USFWS
USGS
Reclamation;
CA DFG/DWR;
Cal Energy

From
Mark Ricca, USGS



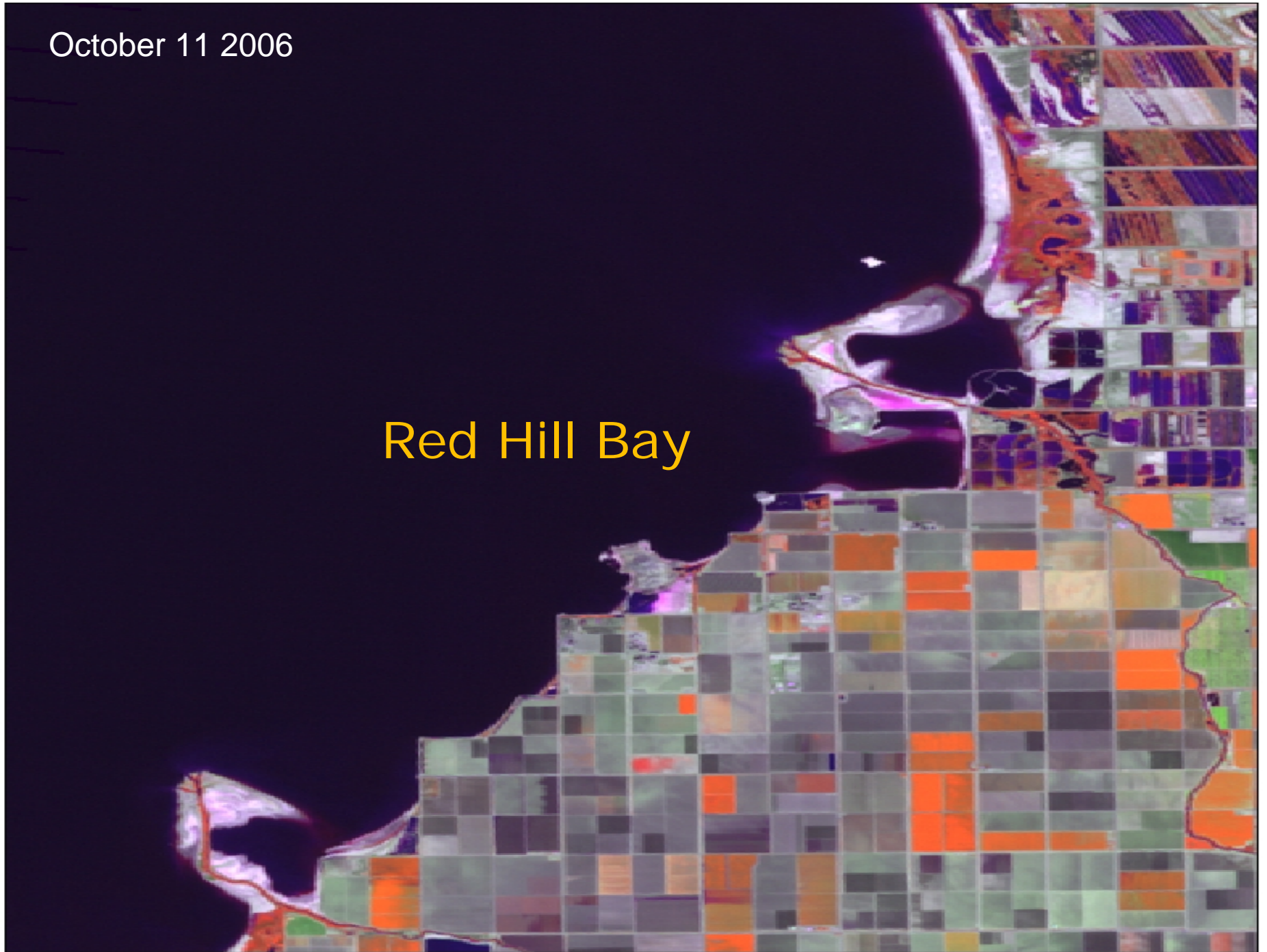
April 28 2010

Red Hill Bay



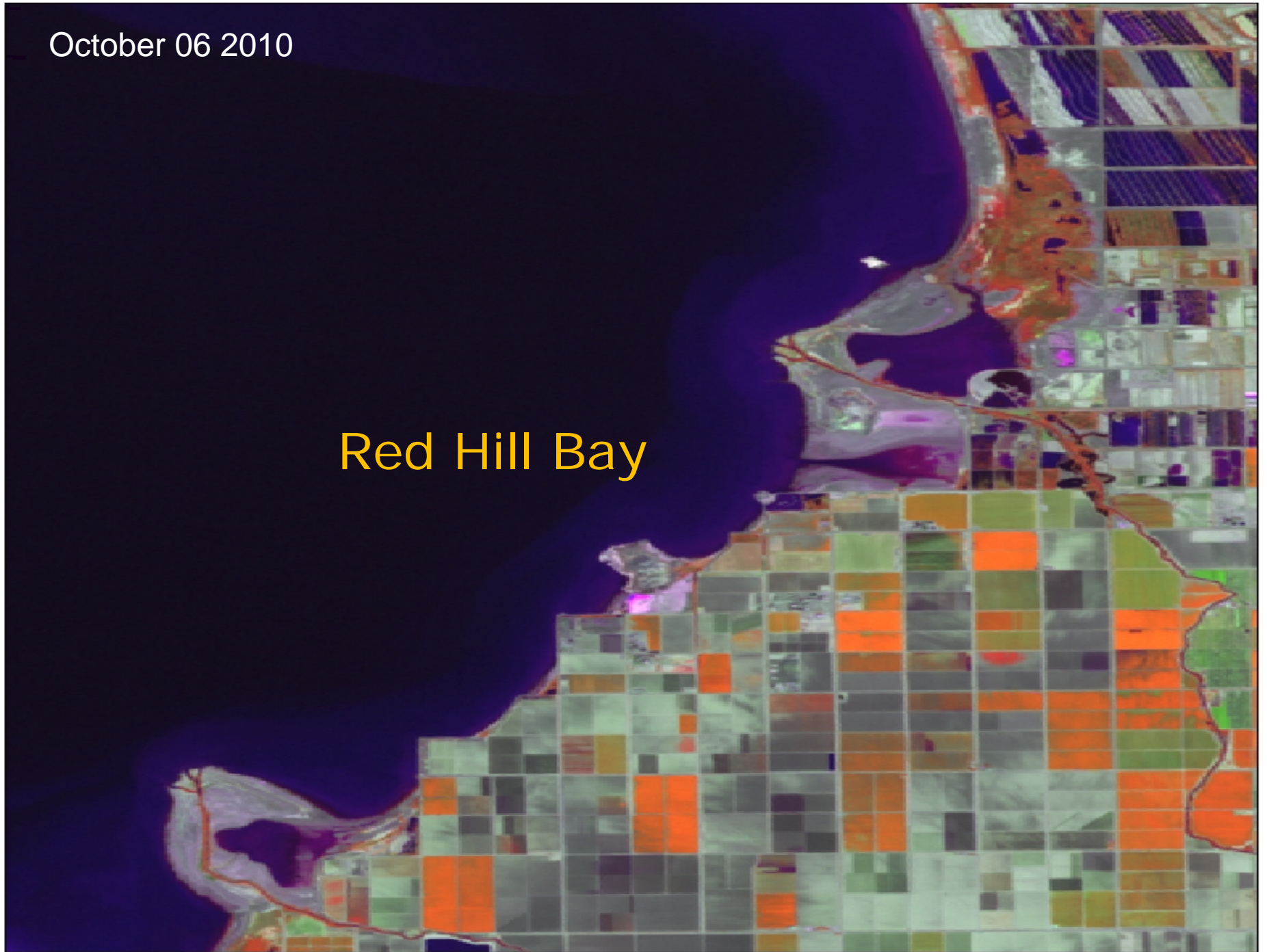
October 11 2006

Red Hill Bay



October 06 2010

Red Hill Bay



Red Hill Bay



Thank You

